

## M 5.8, New Guinea, Papua New Guinea

Origin Time: 2023-09-05 15:03:16 UTC (Wed 01:03:16 local)

Location: 5.3081° S 142.8841° E Depth: 49.0 km

Created: 1 week, 0 days after earthquake

### Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



### Estimated Economic Losses

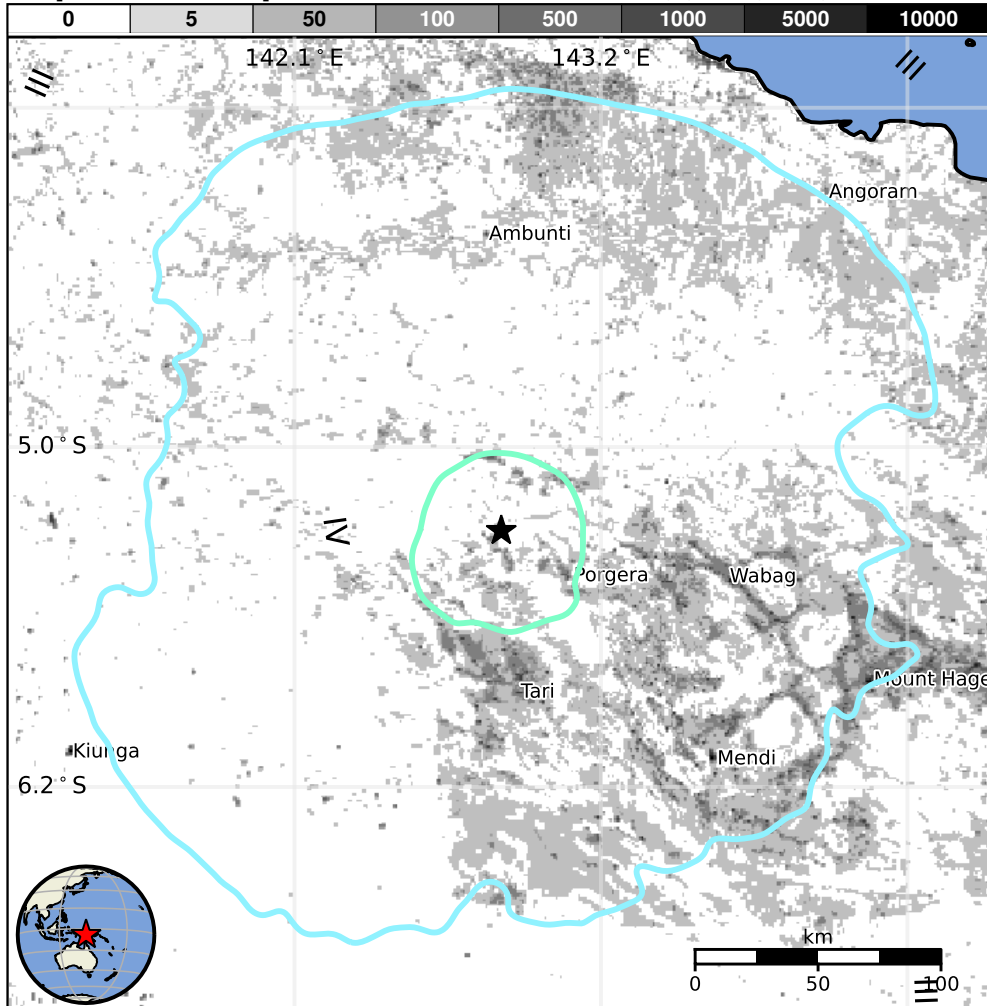


### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	761k*	1,784k	79k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

### Population Exposure



### Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unreinforced brick masonry construction.

### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1993-10-16	381	6.3	VII(75k)	3
2002-01-10	233	6.7	IX(3k)	1
1976-06-25	320	7.1	IX(18k)	422

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

### Selected City Exposure

from GeoNames.org

MMI	City	Population
V	<b>Porgera</b>	2k
IV	<b>Tari</b>	8k
IV	<b>Wabag</b>	4k
IV	<b>Ambunti</b>	2k
IV	<b>Mendi</b>	26k
IV	<b>Mount Hagen</b>	34k
IV	Ialibu	7k
IV	Rauna	<1k
IV	<b>Angoram</b>	2k
III	<b>Kiunga</b>	12k
III	<b>Wewak</b>	18k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000ktef#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000ktef